

## c-Rel (Phospho Ser503) Rabbit pAb

CatalogNo: YP0852

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 69kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:5000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Rel around the phosphorylation site of Ser503. AA range:470-519

## Specificity

Phospho-c-Rel (S503) Polyclonal Antibody detects endogenous levels of c-Rel protein only when phosphorylated at S503. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):TSsDS

## Target Information

**Gene name** REL

**Protein Name** Proto-oncogene c-Rel

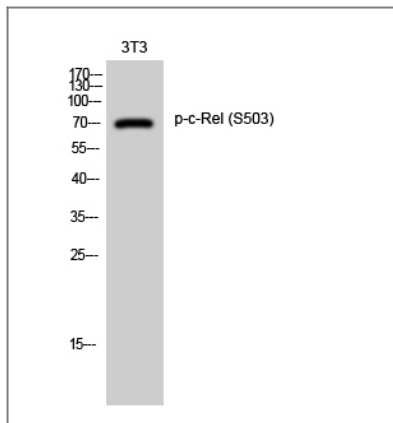
Organism	Gene ID	UniProt ID
Human	<a href="#">5966</a> ;	<a href="#">Q04864</a> ;
Mouse		<a href="#">P15307</a> ;

**Cellular Localization** Nucleus .

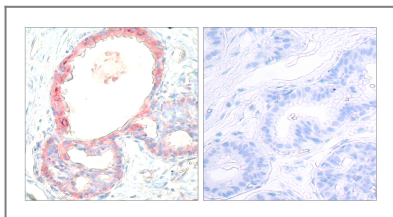
**Tissue specificity** Colon ,

**Function** Function:Proto-oncogene that may play a role in differentiation and lymphopoiesis. NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes such as inflammation , immunity , differentiation , cell growth , tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65 , RELB , NFKB1/p105 , NFKB1/p50 , REL and NFKB2/p52. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors , respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway , I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators , subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. The NF-kappa-B heterodimer RELA/p65-c-Rel is a transcriptional activator. ,similarity:Contains 1 RHD (Rel-like) domain. ,subunit:Component of the NF-kappa-B p65-c-Rel complex. Component of the NF-kappa-B p50-c-Rel complex. Component of the NF-kappa-B p52-c-Rel complex. Homodimer; component of the NF-kappa-B c-Rel-c-Rel complex (By similarity) . Interacts with NKIRAS1. Interacts with NFKBIB (By similarity) . Interacts with NFKBIE. ,

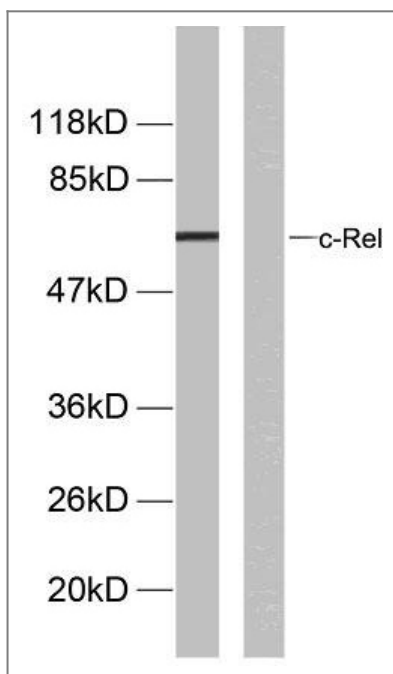
## Validation Data



Western Blot analysis of 3T3 cells using Phospho-c-Rel (S503) Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Rel (Phospho-Ser503) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from MDA-MB-435 cells, using Rel (Phospho-Ser503) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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